

UNITED STATES PATENT OFFICE.

JACOB J. UNBEHEND, OF WALTHAM, MASSACHUSETTS, ASSIGNOR TO THE
JUDSON L. THOMSON MANUFACTURING COMPANY, OF SAME PLACE.

RIVET-HOLDER.

SPECIFICATION forming part of Letters Patent No. 488,510, dated December 20, 1892.

Application filed September 16, 1891. Serial No. 405,914. (No model.)

To all whom it may concern:

Be it known that I, JACOB J. UNBEHEND, of Waltham, in the county of Middlesex, in the State of Massachusetts, have invented new and useful Improvements in Rivet-Holders, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to an improved hand rivet holder for holding rivets when securing the same to any desired article: to this end it consists, essentially, in a plate formed with arms for engaging the rivet head, a spring plate for holding the rivet head in engagement with said arms, a clamp for securing said plates together, and in the detail construction and arrangement of the parts, all as hereinafter more particularly described and pointed out in the claims.

In describing this invention, reference is had to the accompanying drawings, forming a part of this specification, in which, like letters indicate corresponding parts in all the views.

Figures 1, 2, and 3 are respectively top plan, inverted plan and side elevation of my improved holder, a pair of rivets being shown as operatively engaged thereby at Fig. 3. Fig. 4 is a longitudinal vertical sectional view, taken on line (3—3), Fig. 1. Fig. 5 is a transverse vertical sectional view, taken on line (5—5), Fig. 1. Figs. 6 and 7 are isometric perspectives of the detached plates of the rivet holder, and Fig. 8 is an isometric perspective of a modified form of my invention.

Rivets, and particularly that class termed bifurcated rivets, are now generally used for many and various purposes, and have heretofore been generally attached by automatic machines operated either by foot or steam power; but these rivets are particularly applicable for attachment by hand, providing they are firmly held when being attached.

The object of my invention is the production of a suitable hand tool for firmly grasping and holding the rivet when being inserted into and clinched upon the article to which it is to be secured.

(A) represents a plate which is composed preferably of spring metal, is formed with a slot (a) for receiving the shank of the rivet

(C), and with arms (b) on opposite sides of the slot for engaging the head (c) of the rivet and thereby supporting the same.

(D) is a spring plate having its extremity (d) disposed above a portion of the slot (a) for engaging the top face of the rivet head (c) and constantly forcing the same into engagement with the arms (b—b), thus firmly securing the rivet to the holder (H). After being engaged by my rivet holder, as just described, the rivet may then be passed through the article to which it is to be secured, and upon clinching its prongs by a suitable clinching tool it is then firmly secured in position, whereupon the holder may be withdrawn. To facilitate entrance of the rivet head between the plates (A) and (D) the under face of the extremity of the plate (D) is inclined at (d').

At Figs. 1 to 7 inclusive the plates (A) and (B) are shown as rectangular in form and provided at their central portion with apertures (E) through which pass suitable clamps (F), here shown as bifurcated rivets having their head (f) bearing against the upper face of one plate and their prongs (f') turned backwardly upon the under side of the opposite plate. By this construction both extremities of the holder can be utilized to engage rivets, and, as seen in the drawings, both extremities of the plate (A), are formed with slots (a), a portion of which is overlapped by the end of the plate (D), and the plate (D) is somewhat shorter than the plate (A) for facilitating the ready engagement of the rivets by the holder.

At Fig. 8 I have shown the plates (A') and (D') as formed with one extremity of greater area than the other and provided at said extremity with a series of slots (a) of different widths for permitting the entrance of different sized rivets, which are held in position by the overlapping edge of the plate (D).

The operation of my invention will be readily perceived from the foregoing description and upon reference to the drawings, and it is evident that its precise detail construction and arrangement may be somewhat varied from that shown and described.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is—

1. In a rivet holder, the combination with

a plate having arms at its opposite ends for engaging the rivet; of a spring plate having its ends above and adapted to normally bear against said arms for holding the rivet in position, and a clamp for securing the central portion of said plates together, substantially as specified.

2. In a rivet holder, the combination with a plate formed with an aperture therethrough and provided with a slot extending inwardly from one edge thereof for receiving the rivet shank and provided with a pair of arms arranged at opposite sides of the slot and formed with bearing faces for supporting the under face of the rivet head, a second plate above the former formed with an aperture registering with the aperture of the former plate and having one end thereof extended beyond a portion of said slot for engaging the upper face of the rivet head, and a rivet having its shank passed through said apertures with its

head bearing against the upper face of one of the plates and its shank fastened to the other of said plates, substantially as and for the purpose specified.

3. In a rivet holder, the combination with a plate (D) formed with inclined edges ($d'-d'$), a plate (A) having slots ($a-a$) at its opposite extremities beneath the inclined edges ($d'-d'$), and a clamp for securing the central portions of said plates together, substantially as specified.

In testimony whereof I have hereunto signed my name, in the presence of two attesting witnesses, at Waltham, in the county of Middlesex, in the State of Massachusetts, this 15th day of July, 1891.

JACOB J. UNBEHEND.

Witnesses:
 ENOS T. LUCE,
 JOHN P. NOBLE.